UTAH

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BIBLIOGRAPHY TO ACCOMPANY
GEOLOGIC MAP INDEX OF UTAH

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OF

UTAH

Revised and updated by

H. Kit Fuller

1988

from original compilation by

W. L. McIntosh and M. F. Eister

1979

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DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

EXPLANATION

GEOLOGIC MAP INDEX
UTAH

INTRODUCTION

The U.S. Geological Survey Geologic Map Index (GMI) of Utah is an update and revision of the index published in 1979 (McIntosh and Eister). This GMI differs from the earlier USGS editions (Boardman, 1948; Boardman, 1954; and McIntosh and Eister, 1979) in several ways: (1) geologic maps published through mid-1987 have been included; (2) additional data on older maps have been added; (3) errors in old data have been corrected; and (4) information is included on how to use the index and obtain maps. Other older indexes (Gaul, 1952a; Gaul, 1952b; Hintze and Boardman, 1964) were not used in this update.

DESCRIPTION OF THE GEOLOGIC MAP INDEX

This GMI consists of four main parts: (1) a geographic map to help locate areas of interest; (2) a set of index maps organized by scale range, which show the areas of geologic mapping; (3) a bibliography organized by GMI ID number, which gives information about each map; and (4) this explanation, which gives additional information.

The index maps separate the most detailed geologic maps (scales larger than 1:63,360) from the least detailed (scales smaller than 1:63,360) to aid in selecting the most appropriate map for a given purpose. An area of a geologic map is shown by a pattern and is assigned a number that corresponds to a reference in the bibliography. The patterns show the **extent** of each geologic map indexed and do not represent different kinds of maps.

The bibliography is numbered generally in the order the data were collected, although maps of an area may be grouped together. Each bibliographic reference uses the following format, and is punctuated as shown but may not include all of these data:

ID number. Author, publication date, Title: Publisher, Report series and number, figure or plate number, name of area or topic of map, scale. (Depositories.) Remarks.

A publication may include maps of more than one area, in which case the ID number appears more than once on the index maps, although all the plates or figures in each publication are listed together in the bibliography. A publication may have more than one map of the same area (for example, bedrock and surficial), in which case the ID number appears only once on an index map.

Geologic maps of the whole State and very large areas are not shown on the index maps; these publications are marked with an asterisk (*) in the bibliography.

WHAT MAPS ARE INDEXED

Geologic maps of areas in the United States and its territories published by the U.S. Geological Survey (USGS) other Federal agencies, State surveys, professional societies, universities, and commercial entities are indexed, if they meet the following criteria (Fuller, 1984):

- **Map must be published.** No theses, dissertations, open-file reports by State surveys, or other unpublished maps are indexed. USGS Open-File Reports, however, are indexed.
- **Map must have geologic units and explain them** in terms of lithology, stratigraphy, and age.
- **Map must be more detailed than the primary State geologic map** (commonly 1:250,000 or 1:500,000 scale).
- **Map must be an original compilation,** not a generalized version or re-use of a previously published map. Formal publication of a map that previously appeared in a thesis, dissertation, or an open-file report by a State survey is considered an original compilation.
- **Map must have scale and good geographic control** such as latitude and longitude, township and range, a good base map, or an index map showing the precise outline of the area mapped.

HOW TO USE THE GEOLOGIC MAP INDEX

First, **find your area of interest** on the geographic map and then on the index maps.

Next, **note the ID numbers** of the patterned areas in your area of interest.

Then, **find these ID numbers in the bibliography** to find out more about each map.

Also, **look in the bibliography for reports marked with asterisks,** especially if you need generalized or regional maps.

A NOTE ABOUT MAP SCALE

Scale is the relationship of distance on the map to distance on the ground. Scale is an important factor in choosing the best map for a given purpose, because it is an indicator of how much detail the map can show. A scale shown as a representative fraction (for example, 1/63,360 or 1:63,360) means that 1 unit of measure on the map (for example, 1 inch) equals 63,360 of the same units (63,360 inches, which equals 1 mile) on the ground. The smaller the denominator the more detail can be shown on the map; conversely, the larger the denominator the more area can be shown.

HOW TO OBTAIN GEOLOGIC MAPS

Contact the publisher for information on availability, current price, and ordering instructions; the publisher is shown after the colon (:) in each reference in the bibliography, and the series name and number of the map or report follows the publisher. Most publishers sell only their products, and they use their own publication identification numbers when referring to their products, not the ID numbers shown on this GMI. Following is a list of publishers of most maps in this index; information on publishers not in this list is available from large libraries or from the Geologic Inquiries Group (see address under "Further Information").

Selected publishers of geologic maps of Utah

American Association of Petroleum Geologists, Box 979, Tulsa, OK 74101 918/584-2555

American Journal of Science, Kline Geology Laboratory, Yale University, P.O. Box 6666, New Haven, CT 06511 203/436-4771

Brigham Young University, Provo, UT 84602 801/378-4418

Canyonlands Natural History Association, 125 West 200 South, Moab, UT 84532

Compass, Sigma Gamma Epsilon, 830 Van Vleet Oval, Room 163, Norman, OK 73019

Economic Geology, Economic Geology Publishing Company, Business Editor, P.O. Box 637, University of Texas-El Paso, El Paso, TX 79968-0637

Geological Society of America, 3300 Penrose Place, Boulder, CO 80301 303/447-2020

Harvard College Museum of Comparative Zoology, Harvard University, Cambridge, MA 02138 617/495-2466

Intermountain Association of Petroleum Geologists (see Utah Geological Association)

Journal of Geology, The University of Chicago Press, P.O. Box 37005, Chicago, IL 60637 312/962-7600

Rocky Mountain Association Geologists, 1220 University Building, 910 16th Street, Denver, CO 80202

University of Utah Research Institute, Salt Lake City, UT 84112 801/581-7200

U.S. Bureau of Mines, Production/Distribution, Cochrans Mill Road, P.O. Box 18070, Pittsburgh, PA 15236 412/675-4338

U.S. Geological Survey (see addresses below)

Utah Department of Natural Resources, 1636 W. North Temple Street, Salt Lake, UT 84116 801/533-5356

Utah Geological and Mineral Survey, 606 Black Hawk Way, Salt Lake City, UT 84108-1280 801/581-6831

Utah Geological Association, Box 11334, Salt Lake City, UT 84147

Utah Geological Society (see Utah Geological Association)

Utah State Engineer (see Utah Department of Natural Resources)

Utah State Land Board (see Utah Geological and Mineral Survey)

Zion Natural History Association, Zion National Park, Springdale, UT 84767

U.S. Geological Survey Branches of Distribution

Maps:

U.S. Geological Survey
Map Distribution
Federal Center
Box 25286
Denver, CO 80225
303/237-7477

Text products:

U.S. Geological Survey
Books and Open-File Reports
Federal Center
Box 25425
Denver, CO 80225
303/236-7476

Depositories

The abbreviations below, which are used in OF references in the bibliography, indicate USGS and Department of the Interior offices where selected OF's may be inspected.

A Public Inquiries Office, Room 101, 4230 University Drive, Anchorage, AK 99508-4664

Da Library, 1526 Cole Boulevard at West Colfax Avenue, Golden, CO (Mail address: Stop 194, Box 25046, Federal Center, Denver, CO 80225)

Db Public Inquiries Office, Federal Building, Room 169, 1961 Stout Street, Denver, CO 80294

F Library, 2255 North Gemini Drive, Flagstaff, AZ 86001

LA Public Inquiries Office, Room 7638, Federal Building, 300 North Los Angeles Street, Los Angeles, CA 90012

M Library, 345 Middlefield Road, Menlo Park, CA 94025

NC Library, Room 4A100, National Center, 12201 Sunrise Valley Drive, Reston, VA 22092

S Public Inquiries Office, Room 678, U.S. Courthouse, West 920 Riverside Avenue, Spokane, WA 99201

SF Public Inquiries Office, Room 504, Customhouse, 555 Battery Street, San Francisco, CA 94111

T Public Inquiries Office, Room 1C45, Federal Building, 1100 Commerce Street, Dallas, TX 75242

U Public Inquiries Office, Room 8105, Federal Building, 125 South State Street, Salt Lake City, UT 84138

Wa Public Inquiries Office, 1951 Constitution Avenue NW, South Interior Building, Washington, DC 20405

Wb U.S. Department of the Interior, Natural Resources Library, Gifts and Exchange Section, 18th and C Streets, NW, Washington, DC 20240

MAP REFERENCE LIBRARIES

Most references cited in the GMI's, including those which are out of print, should be available for inspection in large public or university libraries. A library can usually borrow publications it does not have through the interlibrary loan system. The following libraries in Utah have collections of USGS products that may include geologic maps:

CEDAR CITY:
Southern Utah State College
LOGAN:
Utah State University
OGDEN:
Weber State College
PROVO:
Brigham Young University
SALT LAKE CITY:
Public Library
U.S. Geological Survey
Room 8105, Federal Building
University of Utah
Utah State Library

USGS OPEN-FILE REPORTS

Most USGS Open-File Reports (OF's) are only available from USGS Books and Open-File Reports (see address above). When ordering OF's, please use the OF number (not the ID number in this GMI) and full title. Note that OF's released before April 1974, which were not numbered when released, use the numbers assigned in the annual USGS circulars that listed OF's.

Superseded Open-File Reports

Superseded OF's are deleted from the Geologic Map Index; the new reports are indexed and they note in parentheses the OF's that were superseded. Superseded OF's are no longer available from USGS Books and Open-File Reports.

FURTHER INFORMATION

Information on very recently published geologic maps is available from

Geologic Inquiries Group
U.S. Geological Survey
907 National Center
Reston, VA 22092
Telephone 703/648-4383

Information on unpublished geologic maps and on other geologic, geophysical, geochemical, or other geoscience data for Utah is available from

Utah Geological Survey and Mineral Survey
606 Blackhawk Way
Salt Lake City, UT 84108-1280
801/581-6831

Additional information on geoscience data may be available from other sources, including the local USGS Water Resources Division District Office, State water resources agencies, county extension agents of the Soil Conservation Service, and County water resources agencies or planning commissions. Local chapters of professional geoscience societies may have guidebooks or other materials available. A large local library may be able to help you locate these sources of information.

ACKNOWLEDGMENTS

This index has benefited from reviews by the Utah Geological and Mineral Survey and the USGS Open-File Services Section. Also, the diligence of Ann France in bibliographic data entry and editing, and that of Yula Sakss in computer processing and final copy preparation, were very important in producing a GMI of high quality.

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_____, 1954, Geologic map index of Utah: U.S. Geological Survey Index to Geologic Mapping in the United States, scale 1:750,000.

Fuller, H. K., 1984, Information selectivity applied to U.S. Geological Survey Geologic Map Index and the GEOINDEX data base, in Rowell, U. H., ed., Roles and responsibilities in geoscience information: Geoscience Information Society Proceedings, v. 14, p. 163-176.

Gaul, G. H., 1952a, Geologic index map of the State of Utah showing selected geological publications other than USGS: Utah Geological and Mineral Survey Reprint 29, plate VIII, scale 1:1,000,000.

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Hintz, L. F., and Boardman, Leona, compilers, 1964, Geologic map index of Utah: Utah Geological and Mineralogical Survey Map 19, 2 sheets, scale 1:1,000,000.

McIntosh, W. L., and Eister, M. F., 1979, Geologic map index of Utah: U.S. Geological Survey , 20 p.

*1. Stokes, W.L., 1963, Geologic map of northwestern Utah: Utah Geological and Mineralogical Survey, scale 1:250,000.

*2. Stokes, W.L., and Madsen, J.H., 1961, Geologic map of Utah--northeast quarter: Utah Geological and Mineralogical Survey, scale 1:250,000.

*3. Hintze, L.F., and Stokes, W.L., 1964, Geologic map of southeastern Utah: Utah State Land Board, scale 1:250,000.

*4. Hintze, L.F., 1963, Geologic map of southwestern Utah: Utah State Land Board, scale 1:250,000.

*5. Hintze, L.F., compiler, 1963, Geologic map of southwestern Utah, in Guidebook to the geology of southwestern Utah--Transition between Basin-Range and Colorado Plateau provinces: Intermountain Association of Petroleum Geologists Guidebook, 12th Annual Field Conference, map, scale 1:250,000.

6. Woodruff, E.G., 1912, Geology of the San Juan oil field, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 76-104, plate 8, scale 1:63,360.

*7. Peterson, J.A., ed., 1956, Geology and economic deposits of east-central Utah: Intermountain Association of Petroleum Geologists Guidebook, 7th Annual Field Conference, plate 1, scale 1:190,000.

8. Marshall, C.H., 1956, Photogeologic map of the Virgin NW quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-149, scale 1:24,000.

9. Gilbert, G.K., 1890, Lake Bonneville: U.S. Geological Survey Monograph 1, plate 32, 1:20,000, plate 35, scale 1:93,750.

10. Marshall, C.H., 1956, Photogeologic map of the Virgin SW quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-147, scale 1:24,000.

11. Spurr, J.E., 1895, Economic geology of the Mercur mining district: U.S. Geological Survey 16th Annual Report, pt. 2, plate 25, scale 1:125,000, plate 26, scale 1:18,000.

12. Sorensen, M.L., and Crittenden, M.D., Jr., 1972, Preliminary geologic map of part of the Wasatch Range near North Ogden, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-428, scale 1:24,000.

13. Crittenden, M.D., Jr., and Sorenson, M.L., 1985, Geologic map of the North Ogden quadrangle and part of the Ogden and Plain City quadrangles, Box Elder and Weber Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1606, scale 1:24,000.

14. Marshall, C.H., 1956, Photogeologic map of the Virgin NE quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-161, scale 1:24,000.

15. Huntington, Ellsworth, and Goldthwait, J.W., 1904, Hurricane fault in the Toquerville district: Harvard College Museum of Comparative Zoology Bulletin, v. 43, plate 7, scale 1:93,750.

16. Brown, R.S., 1952, Geology of the Payson Canyon area, southern Wasatch Mountains, Utah: Compass, v. 29, no. 4, fig. 1, scale 1:62,500.

17. Hackman, R.J., 1955, Photogeologic map of the Aneth-3 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-92, scale 1:24,000.

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20. Reber, S.J., 1952, Precambrian exposures in southwest Utah, southeast Nevada, and northwest Arizona, in Cedar City, Utah, to Las Vegas Nevada: Utah Geological and Mineralogical Survey Guidebook to the Geology of Utah, No. 7, p. 43-44, plate 1 (Reber), scale 1:55,000.

21. Sumsion, C.T., 1970, Geology and water resources of the Spanish Valley area, Grand and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 70-375, fig. 1, scale 1:62,500. (NC, U.)

22. Richardson, G.B., 1907, Underground water in Sanpete and central Sevier Valleys, Utah: U.S. Geological Survey Water-Supply Paper 199, plate 2, scale 1:250,000.

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28. Gardner, L.S., 1952, The Hurricane fault, in Cedar City, Utah, to Las Vegas, Nevada: Utah Geological and Mineralogical Survey Guidebook to the Geology of Utah, No. 7, p. 15-21, plate 1 (Gardner), scale 1:170,000.

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30. Gale, H.S., 1910, Coal fields of northwestern Colorado and northeastern Utah: U.S. Geological Survey Bulletin 415, plate 21, scale 1:125,000.

31. Gale, H.S., and Richards, R.W., 1910, Phosphate deposits in southeastern Idaho and adjacent parts of Wyoming and Utah: U.S. Geological Survey Bulletin 430, plate 11, scale 1:62,500, plate 12, scale 1:62,500, plate 13, scale 1:62,500.

32. Blackwelder, Eliot, 1910, New light on the geology of the Wasatch Mountains: Geological Society of America Bulletin, v. 21, p. 517-542, fig. 5, scale 1:125,000, fig. 9, scale 1:125,000.

33. Boutwell, J.M., 1912, Geology and ore deposits of the Park City district: U.S. Geological Survey Professional Paper 77, plate 2, scale 1:25,000. Also mine maps.

34. Wilson, C.L., 1959, Park City mining district, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 182-188, fig. 2, scale 1:44,000.

35. Lupton, C.T., 1912, Deep Creek district of the Vernal coal field, Uintah County, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 579-594, plate 60, scale 1:62,500.

36. Lupton, C.T., 1912, Blacktail (Tabby) Mountain coal field, Wasatch County, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 595-628, plate 62, scale 1:62,500.

37. Pillmore, C.L., 1956, Photogeologic map of the Springdale SW quadrangle, Kane and Washington Counties, Utah, and Mohave County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-132, scale 1:24,000.

38. Butler, B.S., 1913, Geology and ore deposits of the San Francisco and adjacent districts: U.S. Geological Survey Professional Paper 80, plate 1, scale 1:62,500.

39. Threet, R.L., 1963, Geology of the Parowan Gap area, Iron County, Utah, in Guidebook to the geology of southwestern Utah--Transition between Basin-Range and Colorado Plateau provinces: Intermountain Association of Petroleum Geologists Guidebook, 12th Annual Field Conference, p. 136-145, fig. 1, scale 1:100,000, fig. 2, scale 1:44,000.

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44. Walton, P.T., 1959, Structure of the West Portal-Soldier Summit area, Wasatch, Carbon, and Duchesne Counties, Utah, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 150-152, plate 1, scale 1:155,000.

45. Baker, A.A., 1959, Faults in the Wasatch Range near Provo, Utah, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 153-158, fig. 2, scale 1:215,000.

46. Coffin, R.C., 1921, Radium, uranium, and vanadium deposits of southwestern Colorado: Colorado Geological Survey Bulletin 16, plate 1, scale 1:125,000.

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53. Lindgren, Waldemar, and Loughlin, G.F., 1919, Geology and ore deposits of the Tintic mining district, Utah: U.S. Geological Survey Professional Paper 107, plate 1, scale 1:62,500, plate 4, scale 1:9,600. Also mine maps.

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56. Pillmore, C.L., 1956, Photogeologic map of the Springdale SE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-131, scale 1:24,000.

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